

25 Years
of NITUB



Network of Instrument Technical personnel
and User scientists of Bangladesh (NITUB)



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Foreword

There has been always a dearth of necessary facilities for science teaching and scientific research in Bangladesh. Consequently it has not been possible to generate interest in science education amongst the students not to speak of developing a congenial research environment. This has been widely felt since the inception of Bangladesh in 1971.

Although the country has been having quite a good number of qualified researchers since then, their contribution in scientific research has not been as expected. The impact has not been noteworthy. This dismal situation has been primarily because of lack of laboratory and research facilities. The teachers doing commendable research abroad, on their return to the country found them in dire situation with respect to their pursuit research interest.

The regular institutional budget allocations, even to-day can hardly satisfy their demand. Lack of technical hands with the know- how of maintenance and servicing of equipment also proved further handicap in maintaining the available research facilities.

In an attempt to look into the inventory of science equipment in different institutions it was a shock to find huge number of equipment lying out of order which needed necessary servicing. Dependence on foreign technical personnel proved uncertain, unusual delay and overall expensive.

In the recent days institutional research facilities in a number of areas have improved through the Higher Education Quality Enhancement Project (HEQEP) of the government of Bangladesh through World Bank financial assistance implemented by the University Grants Commission of Bangladesh under the sponsorship of the Ministry of Education. However the problem of developing technical support remains to be addressed.

In late 1980s, a group of research scientists not only felt the lack of research facilities but also felt the lack of technical support. During this period two Swedish Establishments -International Program in Chemical and Physical Sciences (IPICS, IPIPS) of the University of Uppsala, Uppsala, Sweden and International Foundation of Science (IFS), Stockholm, Sweden, initiated a

program for assisting the scientists of developing countries of Asia, Africa and Latin America in their research activities and help develop connectivity with Swedish Universities. More importantly financial grants were awarded to the selected scholars for developing laboratory research facilities in areas of their interest.

The IPICS and IFS grantees soon realized that there was no technical support to take care of trouble-shooting of equipment. The issue was taken up with IPICS and IFS authorities by Professor M. Mosihuzzaman, Department of Chemistry, and the then Dean of the Faculty of Science, University of Dhaka, It also received patronage of Prof. M. Shamsul Haque, the then Chairman of University Grants Commission of Bangladesh. Subsequently a week long Workshop on Instrument maintenance and repair was organized by in 1991 at the Department of Chemistry, University of Dhaka with the financial support of IPICS and IFS. The workshop was attended by only IPICS fellows and IFS grantees or their nominated scientists. The positive impact of the workshop led to the suggestion to conduct another National Workshop with longer duration in which user scientists and technical personnel of educational and research organizations of Bangladesh. This National Workshop was held on 12 -25 January 1994 at the University of Dhaka, BCSIR Chittagong and Bangladesh Agricultural University Mymensingh in which 40 scientists and technical personnel of different educational institutes and research organizations participated. Representatives of IPICS and IFS also attended the workshop. It was recommended in a post workshop meeting attended by the resource persons, organizers, representatives of IPICS and IFS that a Network be formed in Bangladesh to address the issue of proper use, maintenance and repair of scientific equipment.

The proposal for instituting a Network of Instrument Technical Personnel and User Scientists of Bangladesh (NITUB) mooted by Professors M. Mosihuzzaman and NilufarNahar got adopted in a meeting of the Asian Coordination Group of Chemistry (ACGC) on 18 June 1994 Melaka, Malaysia, with the support of IFS, IPICS, UNESCO and Federation of Asian Chemical society (FACS). The network, NITUB was launched in 19 July 1994. NITUB aims and objectives have been clearly formulated and its goal has been fixed. The goal of NITUB is to see that all the scientific equipment function properly and the user scientists are



happy to see their equipment running properly. In its endeavor to materialize NITUB's aims and objectives it has achieved substantially. A glimpse through the pages of this, "25 years of NITUB" bears testimony of its achievement. Now, NITUB is observing its 25th anniversary. It continues to pursue its goal with the same intent as 1994.

NITUB acknowledges the generous support of International Science Programme (ISP: IPICS is now one of the programmes of ISP), IFS, UNESCO and Organization for the Prohibition of Chemical Weapons (OPCW). NITUB is also indebted to many public and private organizations of Bangladesh for their logistic and financial support.

Professor Mesbahuddin Ahmad
President, NITUB

Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB)

Registered under Societies Act of 1860. Registration number: S 7887 (1077)08

NITUB

Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB), launched in 1994, is a learned society dedicated to the scientific education and research in Bangladesh. It is a voluntary and non-political learned society and registered with the Registrar of Joint Stock Companies and Firms, Government of the People's Republic of Bangladesh. The Network is being managed by an Executive Committee comprising of leading scientists of Bangladesh and its major financial support is coming from International Science Programme (ISP), Uppsala University, Sweden.



Dr. Peter Sundin, Director ISP, at NITUB office with NITUB EC members in 2011.

Mission:

The primary mission of NITUB is to create a nucleus of skilled manpower in Bangladesh to ensure proper use, maintenance and trouble-shooting of scientific equipment so that scientific activities do not suffer due to non-functioning equipment.

To fulfill the mission of NITUB, the network conducts the following programmes:

1. Workshop and Training programme on
 - ⇒ Common Laboratory Equipment
 - ⇒ Specific group of equipment (such as GC, HPLC, UV-VIS & IR, GC-MS, LC-MS, AAS, X-ray etc.)
 - ⇒ Medical Equipment (Diagnostic methods, ELISA, Ultrasonography)
 - ⇒ Electrical and Electronic Equipment
 - ⇒ For Technical Personnel
2. Instrument Repair Programme
3. Contractual service
4. Installation of scientific equipment

BACKGROUND AND JUSTIFICATION

Scientific research and education in Bangladesh, like those of other developing countries, are suffering mainly due to proper care of scientific equipment, including its installation, maintenance and repair, are lacking. Scientists also complain that costly scientific equipment cannot be procured owing to fund constraint for which research activities suffer. Ironically, whatever instruments are there remain non - functional in many cases. This is due to insufficient technical knowledge of the scientists and dearth of properly trained technical personnel in the country. The difficulties in maintaining and repairing of scientific instruments faced by the Fellows of the International Programme in the Chemical Sciences (IPICS) and the Grantees of the International Foundation for Science (IFS) were discussed by Professor M. Mosihuzzaman with the officials of IPICS and IFS during late 1980s and solicited their support.

To improve the capability of scientists and technical personnel to use, maintain and repair scientific instruments properly, a weeklong Workshop on Instrument Maintenance and Repair was organized in 1991 by the IFS grantees and IPICS fellows of Bangladesh at the Department of Chemistry, University of Dhaka with the financial support of IPICS and IFS. The positive impact of the workshop led to the suggestion of conducting another National Workshop with a longer duration in which user scientists and technicians of Bangladesh working in the field of chemical and agricultural sciences would participate.



54th Training program on AAS at BCSIR. Dr. Peter Roth, Dr. Peter Sundin of ISP and Dr. A. I. Mostafa (left-right), Chairman, BCSIR were present in the inauguration session in 2014.



NITUB technical expert Dr. Mohammad Nurul Huda, Ex-Director (P&D), BCSIR delivering a lecture in the 60th training programme of NITUB at Govt. Titumir College, Dhaka in 2016.

This National Workshop on Instrument Maintenance and Repair was held on 12-25 January 1994 and its practical sessions were held at Chittagong, Dhaka and Mymensingh simultaneously. The workshop was attended by 40 scientists and technical personnel from different educational and research organizations of Bangladesh and was conducted by 6 foreign experts from the International Centre for Advanced Technology (ICAT), Luton College, UK and 8 local resource persons. The main sponsor of the National Workshop was IFS with some contributions from other national and international organizations. A post-workshop meeting attended by the resource persons, organizers, IFS and IPICS representatives, was held in Dhaka which was presided over by the Chairman UGC, Professor M. Shamsul Haq (now deceased). It was recommended at the Meeting that a Network be formed in Bangladesh to address the issues of proper use,

maintenance and repair of scientific equipment. Later, this proposal was placed before the Asian Coordinating Group of Chemistry (ACGC) in a meeting held on 18 June 1994 in Melaka, Malaysia during the 8th Asian Symposium on Medicinal Plants, Spices and other Natural Products (ASOMPS VIII) by Professor M. Mosihuzzaman & Professor Nilufar Nahar of the Department of Chemistry, University of Dhaka. The proposal was supported by IFS, IPICS, UNESCO and the Federation of Asian Chemical Society (FACS) representatives present in the meeting. ACGC took a resolution in its meeting supporting the formation of the Network of Instrument Technical personnel and User scientists of Bangladesh (NITUB). NITUB was formally launched on 19 July 1994.



Annual General Meeting of 2017.



Prof. Dr. Altaf Hussain delivering a lecture in the 60th training programme in 2016.



Prof. Altaf Hussain; Prof. Mesbahuddin Ahmad and Dr. Md. Zahurul Haque, Director, IFST, BCSIR (left - right) at the inauguration ceremony of the 67th training programme of NITUB in 2017.

AIMS AND OBJECTIVES

The main aims and objectives of NITUB are:

- to improve upon the capabilities of the technical personnel and user scientists in handling, maintaining, trouble-shooting

and repairing of scientific instruments.

- to conduct training courses for the technical personnel and user scientists on different types of scientific instrument.
- to repair instruments and offer technical service to different educational and research institutions of Bangladesh by the technical personnel from the pool of NITUB and if necessary, to procure the services of foreign technical experts.
- to maintain a directory of technical personnel who can offer technical assistance to NITUB.
- to create a stock of spare parts and accessories required for repair of instruments on a routine basis and make them available to various institutions as and when necessary.
- to maintain an inventory of available scientific instruments in Bangladesh.



Prof. Begum Rokeya delivering a lecture
in the 62nd training programme of
NITUB on Common Medical
Instruments in 2016.

GOAL OF NITUB

The goal of NITUB is to see that all the scientific instruments of Bangladesh are functioning properly and the user scientists do not face problem in running their equipment.

MEMBERSHIP OF NITUB

Academicians, research scientists and professionals engaged in Scientific education and Research and related activities are eligible to apply for membership of NITUB in a prescribed form. The form can be downloaded from NITUB's website (www.nitub.org). Qualified instrument technical personnel may also apply for membership with the recommendation of two members of NITUB. The membership application for NITUB is

considered and endorsed in a meeting of the Executive Committee (EC) of NITUB. The membership fee is Tk. 200/- (two hundred) per year and life membership fee is Tk.2000/- (two thousand). At present, NITUB has two hundred thirty (230) members of which 14 are founder members, 205 life members and 11 ordinary members



NITUB members in the AGM of 2017 at NITUB office.

EXECUTIVE COMMITTEE (EC) OF NITUB

All activities of NITUB are being approved in the EC meetings of NITUB. EC of NITUB is an elected body for a term of three years. The EC of the term 2019 – 2021 can be found in the Annexure -A.

ANNUAL GENERAL MEETING (AGM) OF NITUB

As per constitution of NITUB the AGM of NITUB is convened year wise to report the activities of NITUB of the past year for approval. The draft programmes and budget of of NITUB of current year are also placed in the meeting for approval. Accordingly, NITUB programmes are executed every year (January-December).

ADMINISTRATION OF NITUB

NITUB has nine (09) honorary Executive Committee (EC) members, a pool of voluntary technical experts who run the activities of NITUB. There are only four (04) salaried staff members of NITUB, two full time instrument engineers and two part time office assistants, who take care of NITUB office.

ACTIVITIES OF NITUB

Training Programme/Workshop

NITUB organizes training programmes on the use, maintenance and trouble-shooting on specific groups of equipment like IR & UV-VIS, GC, GC- MS, HPLC, AAS, X-ray and NMR for user scientists and technical personnel to update their knowledge and improve their skill on the use of the equipment. Training programmes are generally limited to 15-20 participants and are run for 5-6 days. Four-six such programmes/workshops are run per year.

Each programme includes both theoretical and practical sessions. Circular of training programme is posted in NITUB's website (www.nitub.org) as well as hard copies are sent to research organizations and universities by post. So far, NITUB has conducted 72 such training programmes through which **more than one thousand** scientists, university college teachers have been trained. NITUB has achieved the appreciation of the scientists and the network is often requested to conduct such training programmes more frequently and for longer duration. A summary of the training programme so far conducted is given in Table-I. The number of participants attending these training programmes is shown category-wise in Table-2.



Prof. Nilufar Nahar delivering lecture in the 68th training programme of NITUB in 2018.



One of the laboratory session of the 68th training programme of NITUB on AAS in 2018.



Prof. Dr. Faridul Alam, Honourable Vice-Chancellor, BUHS distributing certificates to a trainees of the 70th training programme of NITUB in 2018.

Table-1. Training programmes of NITUB conducted during 1994-January 2019

| Training Programme | | Venue of the training programme | No. of Participants |
|--------------------|--|--|---------------------|
| 1 | Training programmes on GC; 8 programmes so far | DU and BIRDEM | 110 |
| 2 | X-Ray Powder Diffraction Technique | DU | 7 |
| 3 | Training programmes on HPLC; 10 programmes so far | DU; BIRDEM; BCSIR and Dept. of Livestock Services | 146 |
| 4 | Training programmes on UV-VIS & IR Spectrophotometers; 9 programmes so far | DU; JU; RU; SUST, BCSIR and Plasma Plus+ Application Research Laboratory | 142 |
| 5 | Training programmes on AAS; 10 programmes so far | BCSIR; DU; ICDDR'B; Geological Survey of Bangladesh; AEC and Plasma Plus+ Application Research Laboratory | 127 |
| 6 | Training programmes on Various Common Laboratory Equipment; 11 programmes so far | BCSIR Dhaka, BCSIR Chittagong; BCSIR Rajshahi; DU; BAU And Chittagong University; HSTU | 241 |
| 7 | Nuclear Magnetic Resource (NMR) spectrometer | BCSIR Dhaka | 4 |
| 8 | Training programmes on GC and GC-MS; 4 programmes so far | DU & BCSIR Dhaka | 49 |
| 9 | Training programmes on Common Medical Instrument; 10 programmes so far | BIRDEM; BIHS; Gono Bishwabidyalay and Gono Shasthaya Samajvittik Medical College Hospital | 130 |
| 10 | Training programmes on Common Laboratory Equipment for College Teachers; 6 programmes so far | Eden Mohila College, Ananda Mohan College, Rajshahi College, BM College Barisal and Govt. Titumir College Dhaka. | 104 |
| 11 | Training programme on Basic Electronics; 2 programmes so far | NITUB Office | 29 |

Table-2. Category wise total number of participants attending the training programmes

| No. of training Programme conducted | Total number of participants attended these training programmes = 1,089 | | | | |
|-------------------------------------|---|------------------|---------------------|---------------------|----------------------|
| | University/ College teachers | Graduate Student | Research Scientists | Technical Personnel | Medical Technologist |
| 72 | 309 | 69 | 436 | 212 | 63 |

NITUB also organizes workshops on

- common laboratory equipment for University College Teachers and for Technical Personnel.
- common medical equipment for medical personnel.

On-Site training

NITUB also offers on-site training programme if requested. It has organized such programmes on the use maintenance of Atomic Absorption Spectrometer (AAS) and High Performance Liquid Chromatograph (HPL) during February - April, 2001 for the research officers of the Poultry Sector Development Project (PSDS) under the Directorate of Livestock Services (DLS), Firmgate, Dhaka, an organization of the Government of Bangladesh.



Mr. A. K. Chowdhury, NITUB's Instrument Engineer delivering a lecture in the training programme of NITUB on Laboratory Equipments at BAU, Mymensingh in 2018.

Instrument Repair Programme

A major programme of NITUB is Instrument Repair Programme. User scientists often face problems with their non-functioning scientific instruments and to address this problem NITUB started this programme in the year 1996. The programme runs throughout the year. The concerned scientist sends a request on a prescribed form of NITUB to repair his/her non-functioning instrument. This request form can be downloaded from NITUB's website (www.nitub.org). Technical experts of NITUB go to the institution where the instruments belong and repair it. If any instrument cannot be repaired, the technical experts then give a report specifying the fault.

If spare parts required to repair an instrument costs more than Tk.2000/- the institution is requested to procure the spare parts. When the institution procures the parts, NITUB experts go back and fix the instrument. However, NITUB fix the instrument with spare parts costing up to 2000/-. Since 1996, NITUB has repaired 1727 scientific equipment of national and regional educational and research organizations. Details about the repaired instruments by NITUB can be seen in Table 3 and 4.

Table-3. Instrument Repair Programme

| Year | No. of Instrument repaired | Estimated market price of the instruments (U.S. \$) | Expenditure of NITUB to repair the instruments (U.S. \$) |
|--------------|----------------------------|---|--|
| 1996 | 10 | 42069.00 | 529.00 |
| 1997 | 28 | 74914.00 | 826.00 |
| 1998 | 82 | 326948.00 | 4904.00 |
| 1999 | 76 | 265483.00 | 4085.00 |
| 2000 | 126 | 610086.00 | 5225.00 |
| 2001 | 64 | 271224.00 | 3190.00 |
| 2002 | 73 | 250431.00 | 2726.00 |
| 2003 | 40 | 150750.00 | 2182.00 |
| 2004 | 29 | 200750.00 | 2505.00 |
| 2005 | 40 | 678923.00 | 1370.00 |
| 2006 | 34 | 385735.00 | 1132.00 |
| 2007 | 52 | 741457.00 | 1711.00 |
| 2008 | 70 | 292536.00 | 1869.00 |
| 2009 | 108 | 204000.00 | 1075.00 |
| 2010 | 133 | 886388.00 | 1152.00 |
| 2011 | 102 | 326563.00 | 1142.00 |
| 2012 | 142 | 512594.00 | 1008.00 |
| 2013 | 102 | 595320.00 | 1153.00 |
| 2014 | 72 | 260260.00 | 1287.00 |
| 2015 | 38 | 205137.00 | 2774.00 |
| 2016 | 96 | 275719.00 | 2310.00 |
| 2017 | 82 | 344189.00 | 2310.00 |
| 2018 | 128 | 563750.00 | 535.00 |
| Total | 1727 | 84,65,226.00 | 47,000.00 |

Table-4. Category wise Scientific Instruments Repaired by NITUB during 1996 - 2018

| Total number of Scientific Instruments Repaired = 1727 | | | | | |
|--|----------------------------|----------------------------------|--------------------|---------|----------------|
| Public University | Public Health Organization | Scientific Research Organization | Private University | College | Pharmaceutical |
| 861 | 136 | 255 | 109 | 281 | 85 |



Mr. A.K Chowdhury, NITUB's Instrument Engineer, repairing a flame photometer at BTRI, Srimangal in 2017.



Mr. Tanvir Uddin, NITUB's Instrument Engineer, repairing a Soxhlet Apparatus at University of Chittagong, Chittagong in 2017.

The success of the technical experts of NITUB in repairing non-functioning scientific equipment made this programme a very popular one among the scientists of Bangladesh. It is observed that usually less than 1% of the book value of the instrument is to be spent to repair the non-functioning instrument. NITUB repairs about 75 instruments per year and the instruments range from Water bath, pH meter to GC, HPLC, AAS, etc.

Technical Service to Nepal

In the year 2008, three technical experts of NITUB attended a workshop on Instrument Maintenance & Repair in Nepal as resource persons. During the workshop, the technical experts repaired 50 non-functioning scientific equipment of two public universities of Nepal. Scientists of Nepal plan to launch instruments repair programme there too.



Mr. A.K Chowdhury opening an equipment and detecting its fault at University of Tribhuvan Nepal in 2008.

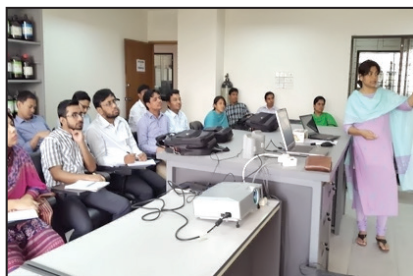


Prof. Krishna Manandhar and NITUB technical expert Mr. Rahmat Ullah discussing about workshop organized by NITUN held in Nepal in 2008.

NITUB Services offer to

The different institutions take services of NITUB to repair their non-functioning equipment include:

- Many Departments of Science, Bioscience, Pharmacy & Life Science faculties of the University of Dhaka, Jahangirnagar University, Rajshahi University, Chittagong University, Bangladesh Agriculture University and also other public and private Universities.
- Bangladesh Sheikh Mujib Medical University, Medical Colleges, Public Health Organizations.
- Research organizations like Bangladesh Council of Scientific and Industrial Research (BCSIR), Bangladesh Atomic Energy Commission (BAEC), Geological Survey of Bangladesh, Bangladesh Forest Research Institute, Bangladesh Institute of Nuclear Agriculture.
- Pharmaceutical Companies and Chemical Industries.



Dr. Rumana Akther Jahan delivering a lecture in the 64th training programme of NITUB on UV-VIS & IR in 2017.

Contract Service

NITUB signs memorandum of understanding (MoU) with any institution for servicing of scientific equipment. The achievement of NITUB has created interest both in public and private sectors



and NITUB is requested to sign contract to repair non-functioning scientific equipment on yearly basis. NITUB has agreement for last couple of years with Bangladesh Petroleum Exploration and Production Company Limited (BAPEX) to maintain and repair of BAPEX non functioning laboratory equipment. NITUB looks forward to sign such agreements with other organizations.

Installation Services

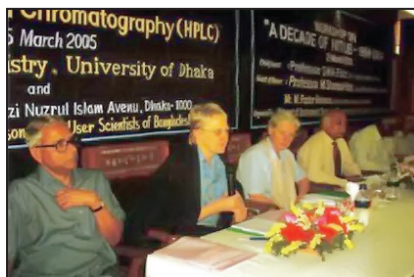
NITUB also offers installation services to the educational and research institutions. Equipment like IR, GC-Mass, HPLC, X-ray have been installed by NITUB technical personnel in a number of institutions. These instruments could not be installed earlier by the institutions due to lack of expertise available in the concerned institutions. During installation the engineers and technical experts also trained the user scientists and technical personnel of the respective organization to run the equipment.

Advisory Services

It is often observed that the scientists are not well conversant with the equipment they need to procure for their laboratories. In such cases, NITUB offers Advisory Services, if requested.

A decade of NITUB

NITUB organized a one day symposium, "A Decade of NITUB", in 2005 to assess its strength and weakness. The symposium was attended by administrators, senior faculty members, senior scientists and participants of all previous training programmes of NITUB. The participants expressed their views on the results of their experiences with respect to the training that they had received. The participants were very positive about the different training programmes of NITUB and expressed their satisfaction for getting help from NITUB when necessary. NITUB plans to organise another day long workshop in 2018 inviting administrators, scientists, former participants of NITUB programmes to evaluate strength and weakness of its activities. However, in the 108th EC meeting of NITUB it was decided that instead of a day long workshop in 2018 NITUB would celebrate "25 years of NITUB" in March 2019.



Dr. Malin Akerblom, Director, IPICS, addressing at the inauguration of HPLC training programme in 2005.



Prof. M. Mosihuzzaman; Prof. Dr. Md. Akhtaruzzaman, Pro-Vice Chancellor (Administration), DU; Prof. Dr. Golam Mohammed Bhuiyan, Director, CARS, DU and Prof. Altaf Hussain (left - right) at the inauguration ceremony of the 64th training programme of NITUB in 2017.

MoU with IFS

NITUB signed an MoU with IFS for the period 2007-2010 of IFS grantees (national and regional) to participate in NITUB's programmes. NITUB also repaired the non-functioning equipment of IFS grantees, if asked for. It has been agreed that IFS grantees of the region will get support from IFS if they attend NITUB programmes. NITUB welcomes MoU with other similar international organizations.

Regional cooperation

Following the example of NITUB, Professor Mangala Manandhar of the Central Department of Chemistry, Tribhuvan University, Nepal, took an initiative to form Network of Instrument Technical personnel and User scientists of Nepal (NITUN). NITUN is getting active support from IFS to run their activities. For the last few years, scientists and technical personnel of Nepal took part in NITUB programmes getting financial support from IFS or from their own sources. NITUB has also organized a regional training programme on common laboratory equipment sponsored by IFS and OPCW



A group picture of participants and NITUB technical experts in the workshop at Tribhuvan University, Nepal, organized by NITUN in 2008.

where scientists and technical personnel from Nepal and Myanmar took part. NITUB hopes to extend its regional collaboration programme with other countries of the region, including Laos, Vietnam and Cambodia

PRESENTATION OF NITUB IN INTERNATIONAL FORUM

Cameroon:

IFS organized an International Workshop on "Purchasing, Servicing and Maintenance of scientific equipment in Western Africa" on 05-08 November 2002 at Buea University, Cameroon where General Secretary of NITUB, Professor Altaf Hussain, presented a paper on NITUB's activities.

Taiwan:

Professor Altaf Hussain, attended the 8th Conference of the Asian Crystallographic Association (AsCA'07) in Taipei, Taiwan on 4-7 November 2007. During the conference, Professor Hussain was invited at the Institute of Chemistry, Academia Sinica of Taiwan, to deliver a lecture on 07 November 2007. Professor Hussain not only talked on his research field there but also presented NITUB and its activities.

Italy:

The Third World Network of scientific Organization (TWNISO) organized a workshop, "Knowledge Sharing for Local Development in the South" in Trieste, Italy on 4-6 July 2005. Professor Mesbahuddin Ahmad, President of NITUB, was invited to attend the workshop. Professor Ahmad presented a paper on the activities of NITUB in the workshop.



Prof. Dr. Nasren Ahmed, Pro-vice Chencellor (Academic), DU, addressing at the closing ceremony of 64th training programme of NITUB in 2017.

Ethiopia:

International Science Program (ISP) organized a International Conference titled, "Regional

and Interregional Cooperation to Strengthen Basic Sciences in Developing Countries" on 1-4 September 2009 at UNCC in Addis Ababa, Ethiopia. Among others the conference was participated by Research Project/Network members of ISP supported programs. Professor M.Mosihuzzaman, Vice-President of NITUB attended the conference to represent Asian Network of Research on Antidiabetic Plants (ANRAP). Professor Zaman also delivered a Plenary lecture in the conference title was "Importance of Collaboration and Networking in Capacity Building in Basic Sciences in Developing Countries". Professor Altaf Hussain, General Secretary of NITUB gave an oral representation and also presented a poster on NITUB in the conference.

Professor Begum Rokeya, Joint Secretary, NITUB was invited to present NITUB in the 8th E-SALAMA workshop in Addis Ababa, Ethiopia held on 7-11 December 2009. During the workshop, Professor Rokeya presented a paper on the activities of NITUB and also its future programs. The participants of the workshop highly appreciated NITUB and were planning to have a similar network in their countries.

Lao People's Democratic Republic:

Professor Altaf Hussain, presented a paper on NITUB's activities in The Third International Conference on Science and Technology for Sustainable Development of the Greater Makong Sub-region (3rd STMGMS) and The Second International Conference on Applied Science (2nd ICAS) held at Souphanouvong University, Luang Prabang, Lao People's Democratic Republic on 24-25 March 2011.

Hyderabad, India:

24th Congress and General Assembly of the International Union of Crystallography (IUCr) was held at the Hyderabad International Convention Centre, Hyderabad, India on 21 -28 August 2017. Professor Altaf Hussain presented NITUB in the congress and the title of the presentation was "NITUB - a scientific emerging network".



FUTURE PROGRAMMES OF NITUB

The duration of the training programmes of NITUB is generally 5-6 days. Participants frequently request NITUB to organize training programmes for longer duration (2-3 weeks long). Programmes of longer duration will definitely help participants to be more conversant in using and also confidently handling instruments. NITUB has already conducted a two-week long training programme on AAS and on HPLC considering the demand of scientists and such programmes will be continued in future.

NITUB will expand its activities in :

- On-site training programme
- Follow-up workshop for former trainees of NITUB
- Publication of training manuals
- Workshop on basic and advanced electronics
- Course on laboratory technology
- Fabrication of low cost equipment

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- Organization for the Prohibition of Chemical Weapons (OPCW), The Hague, The Netherlands.
- Ministry of Health and Family Welfare (MOH&FW) and Ministry of Science, Information and Communication Technology (MoST), Government of the People's Republic of Bangladesh.



- University Grants Commission (UGC), Bangladesh.
- Network of Instrument Technical personnel and User scientists of Nepal (NITUN).
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- Bangladesh Centre for Advanced Studies (BCAS).
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- Atomic Energy Centre, Dhaka (AECD).
- Bangladesh Institute of Research and Rehabilitation in Diabetes, Endocrine and Metabolic Disorders (BIRDEM).
- Bangladesh University of Health Sciences (BUHS).
- Bangladesh Diabetic Somity (BADAS).
- Departments and centres of public universities of Bangladesh.
- Public and Private research organizations of Bangladesh.
- Plasma Plus Application & Research Laboratory, Dhaka, Bangladesh

Executive Committee of NITUB for the term 2019-2021



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Prof. M. Moshuazzaman
Vice-President



Prof. Altaf Hussain
General Secretary



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